Available online at www.sciencedirect.com
SCIENCE DIRECT®
ELSEVIER
Journal of Hydrology 312 (2005) 322
Journal of Hydrology
www.elsevier.com/locate/jhydrol

Contents of Volume 312

Vol. 312, Nos. 1–4 **October 10, 2005**

Constraining water sources and hydrologic processes from the isotopic analysis of water and dissolved strontium, Lake Junin, Peru
M. A. Flusche, G. Seltzer, D. Rodbell, D. Siegel and S. Samson 1
Studies on distribution and fractionation of heavy metals in Gomti river sediments—a tributary of the Ganges, India
K. P. Singh, D. Mohan, V. K. Singh and A. Malik 14
Mean soil moisture estimation using temporal stability analysis
J. Martínez-Fernández and A. Ceballos 28
Semi-analytical homogeneous anisotropic capture zone delineation
M. N. Fienen, J. Luo and P. K. Kitanidis 39
Groundwater flow along and across structural folding: an example from the Judean Desert, Israel
L. L. Ben-Itzhak and H. Gvirtzman 51
Influence of pebble size and cover on rainfall interception by gravel mulch
X.-Y. Li, P.-J. Shi, L.-Y. Liu, S.-Y. Gao, X.-S. Wang and L.-S. Cheng 70
Prediction boundaries and forecasting of non linear hydrologic stage data
J. Park, J. Obeysekera and R. VanZee 79
Measurements and modeling of throughfall variability for five forest communities in the southeastern US
M. L. Bryant, S. Bhat and J. M. Jacobs 95
Estimating spatial distributions of hydraulic parameters for a two-scale structured heterogeneous lignitic mine soil
U. Buczko and H. H. Gerke 109
Selection of conceptual models for regionalisation of the rainfall-runoff relationship
H. Lee, N. McIntyre, H. Wheater and A. Young 125
Coupled inverse modeling of vadose zone water, heat, and solute transport: calibration constraints, parameter nonuniqueness, and predictive uncertainty
M. J. Friedel 148
Simulating riparian evapotranspiration: a new methodology and application for groundwater models
K. J. Baird and T. Maddock III 176
Improved weighting methods, deterministic and stochastic data-driven models for estimation of missing precipitation records
R. S. V. Teegavarapu and V. Chandramouli 191
Impact of DEM mesh size and soil map scale on SWAT runoff, sediment, and NO_3–N loads predictions
V. Chaplot 207
Effect of the accuracy of spatial rainfall information on the modeling of water, sediment, and NO_3–N loads at the watershed level
V. Chaplot, A. Saleh and D. B. Jaynes 223
Multi-site downscaling of heavy daily precipitation occurrence and amounts
C. Harpham and R. L. Wilby 235
A numerical modeling study on desert oasis self-supporting mechanisms
P. C. Chu, S. Lu and Y. Chen 256
Development and application of a soil classification-based conceptual catchment-scale hydrological model
D. Maréchal and I. P. Holman 277
Remote sensing of snow thaw at the pan-Arctic scale using the SeaWinds scatterometer
M. A. Rawlins, K. C. McDonald, S. Frolking, R. B. Lammers, M. Fahnestock, J. S. Kimball and C. J. Vörösmarty 294
Flow system dynamics and water storage of a fissured-porous karst aquifer characterized by artificial and environmental tracers
F. Einsiedl 312

doi:10.1016/S0022-1694(05)00430-0